

## **FUSCO'S SCHOOL (I.C.S.E)** Indiranagar, Bangalore HALF YEARLY EXAMINATION 2016-17

**Subject: Mathematics** 

Class	: VII				Subj						Time: 2 <sup>1</sup> Marks: 8	
Class						Secti	on – A		100 10 10 PM		17141 K3. 0	
Ques	tion 1					5000						
	how ma	ny yea	rs will	Rs. 870	0 amo	ount t	o Rs.1	,044,	the rate	of inter	rest	3
be	ing $2\frac{1}{2}$ %	p.a.										
b) Fi	2											3
	(x + 6)											
	(y + 0.7)	/	/									
							ears w	ill pro	oduce th	ie same	interest	4
as	Rs. 900	lent ou	at at 4%	o Ior 5	years	:						
Oues	tion 2											
		<u>2a</u> +	$\frac{1}{1} + \frac{3a}{3a}$	1-1								3
a) Simplify: $\frac{2a+1}{3} + \frac{3a-1}{2}$ b) Simplify:								3				
	5b - { 6	a + (8)	- b - a	)}								5
	3x + [4]			,,								
c) Fin	nd the m	ean fro	om the g	given t	able:					_		4
X		3	4	5	6	7	8	9	10			
f	1	2	4	6	4	3	2	1	1			
Oues	tion 3											
The second	nd the S.	I. and	amoun	t on R	s. 225	for 3	vears	s 9 ma	onths at	16% p.	a	3
	the mear						-					3
1.0	nplify :											4
(x	+ y – z)	x + (z	+x-y	y - (x - y)	x + y -	- z) z						
Oues	tion 4											
-	nplify :						•					3
	$\frac{a}{10} + \frac{2a}{5}$											-
	10 5											
1.												
	$\frac{2y}{+} \frac{3y}{-}$											
ii.	$\frac{2y}{4} + \frac{3y}{5}$	ing fo										2
ii. 5) Ev	aluate us		rmulae	:								3
ii. b) Ev i.	aluate us $(3x + 2y)$	$()^{2}$		:								3
ii. b) Ev i. ii.	aluate us	$(3m)^2$		:								3
ii. b) Ev i. ii. iii. c) The	aluate us (3x + 2y) (3m - 5n) $153 \times 14$ e follow	7) <sup>2</sup> ) (3m 47 ing obs	+ 5n) servatio	ns sho	ow the	e num	ber of	f child	lren pres	ent for	daily sports	3
ii. b) Ev i. ii. iii. c) The pra	aluate us (3x + 2y) (3m - 5n) $153 \times 14$ e follow actice du	(3m) <sup>2</sup> ) (3m) (3m) (17) (17) (17) (3m) (3m) (3m) (3m) (3m) (3m) (3m) (3m	+ 5n) servatio e month	ns sho	ow the ay. Re	e num eprese	ber of	f child giver	lren pres n data in	ent for the for	daily sports m of a	250 - 14 69 - 14 - 14
ii. b) Ev i. ii. iii. c) Th pra fre	aluate us (3x + 2y) (3m - 5n) $153 \times 14$ e follow actice du equency	y) <sup>2</sup> ) (3m 47 ing obs ring th distrib	+ 5n) servatio e month pution:	ns sho 1 of Ma	ay. Re	eprese	ent the	giver	n data in	the for	daily sports m of a	250 - 14 69 - 14 - 14
ii. b) Ev i. ii. iii. c) Th pra fre	aluate us (3x + 2y) (3m - 5n) $153 \times 14$ e follow actice du equency 40	(3m) <sup>2</sup> ) (3m) (3m) (17) (17) (17) (3m) (3m) (3m) (3m) (3m) (3m) (3m) (3m	+ 5n) servatio e month	ns sho	ow the ay. Re 40 38	eprese	ber of ent the 41 39	f child given 44 40	lren pres n data in 40 42	ent for the for 40 37	daily sports m of a	250 - 10 89 - 54 - 1 -

## Section B

· · ·			Secu	UII D				
Question 5	tabla ahan		1	C	1	1	C	-
a) The following Draw a pie-gra		vs the mai	ket positic	ons of s	some t	orands c	or soap.	5
Soap(brands)	*	А	B C	D		E		
No of buyers			27 15	24		18		
b) Smplify :		51	27 15	2-	Ŧ	10		5
i. $9x + 5 - [4x]$	$-{3x-2}$	(4x - 3)	1					
ii. $2a - 3b - [3a - 3b - [3a - 3b - [3a - 3b - $			-					
Question 6								
a) Simplify the fo i $106^2$		using form $89^2 - 79$						3
	ii atia maan							2
b) Find the arithm i. 6, 10, 16, 20			-	in delo	ow:			3
ii. first ten who		S	0.					
c) The number of			different a	ctivitie	es is sl	nown in	the table	
given below. D					0 10 01	10 111 111	the tuble	4
	1.2		0 1					S machine
Activities	scouts	Debate	Science	Club	Inst.	Music	S.U.P.W.	]
No.of boys	25 .	13	7		30		15	
<ul> <li>a) Find <ol> <li>(x - <sup>4</sup>/<sub>9</sub>) (x - <sup>5</sup>/<sub>9</sub>)</li> <li>(x - 18) (x +</li> </ol> </li> <li>b) Find the square <ol> <li>5p - 1</li> <li>abc + cd</li> </ol> </li> <li>c) A sum of Rs. 1, <ol> <li>The rate of in</li> <li>The sum that</li> </ol> </li> </ul>	3) of: 780 beco nterest.					ne rate o	f interest.	3 3 4
Question 8 a) Simplify: i. $(p + \frac{p}{3})$ (2) ii. 8 (2a + 3b -	2	3	)					3
b) Find which of th i. $x^2 - 8x + 9$ ii. $9x^2 + 6xy + 4$ iii. $m^2 + 2m + 4$	he followi	ng are per	fect square					3
c) Fid the S. I. and	amount o	n Rs. 600	from July	12 to	Dec.	5 at 10	0% p. a.	4

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